

PHYSIOLOGICAL SUPPORT DEBRIEFING

25X1A

DATE 8 Mar 68 ACFT 27 PILOT [REDACTED]
 TIME IN FLIGHT 4+00 TIME IN SUIT 5+20 PREBREATHING TIME 1+00

SATISFACTORY UNSATISFACTORY

1. PHYSICAL CONDITION (PILOT)
2. SURVIVAL KIT AND CUSHION 51
3. PARACHUTE 139
4. HELMET 266
 - A. REFLECTIONS
 - B. FACE HEAT
 - C. COMMUNICATIONS
5. SUIT PROPER -3
 - A. CABIN DECOMPRESSION: YES NO
6. OUTER GARMENT -3
7. BOOTS AND SPURS OK w/o D
8. GLOVES -2
9. OXYGEN SYSTEM

DEPART		RETURN	
TIME	AMT	TIME	AMT

#1 1055 9.5 1533 8.25

#2 1055 9.5 1533 9.0

10. MISCELLANEOUS
11. EVALUATION ITEMS

- A.
- B.
- C.
- D.
- E.

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[REDACTED]

12. REMARKS: (EXPLAIN UNSATISFACTORY REPORT)

FULL PRESSURE SUIT TEST LOG

SUBJECT # 1051
 SUIT # -3
 OUTER GARMENT W/FLOAT GEAR -3
 HELMET # SN ~~278~~ 266
 GLOVES # -2
 BOOTS CT

FLIGHT DATE 8 Mar 68
 DON 1020
 DOFF 1540
 TIME IN SUIT 5+20
 TECHNICIAN

25X1A

<u>PRESS-TO-TEST</u>	<u>PRE-FLIGHT</u>	<u>SUBJECT TEST</u>	<u>POSTFLIGHT</u>
<u>SYSTEM #1</u>			
Max Pressure	<u>104</u>	<u>120</u>	<u>120</u>
Differential	<u>1.3</u>	<u>1.4</u>	<u>1.5</u>
Leak Rate	<u>1050</u>	<u>450</u>	<u>500</u>
<u>SYSTEM #2</u>			
Max Pressure	<u>113</u>	<u>120</u>	<u>112</u>
Differential	<u>1.3</u>	<u>1.4</u>	<u>1.3</u>
Leak Rate	<u>1250</u>	<u>400</u>	<u>400</u>
Unpress Leak Rate	<u>300</u>	<u>350</u>	<u>250</u>
Face Heat	<u>18.5</u>	<u>-</u>	<u>-</u>
Commo and Cord	<u>OK</u>	<u>-</u>	<u>-</u>
Pencils	<u>✓</u>	<u>-</u>	<u>-</u>
Knife	<u>✓</u>	<u>-</u>	<u>-</u>
Controller Number	<u>71</u>	<u>-</u>	<u>-</u>
Packet	<u>✓</u>	<u>-</u>	<u>-</u>
Grease Zippers	<u>✓</u>	<u>-</u>	<u>-</u>
Check Location of CO ₂	<u>✓</u>	<u>-</u>	<u>-</u>
Pressure Tap Screws	<u>-</u>	<u>OK</u>	<u>-</u>

PRESSURE SUIT HOOK-UP CHECKLIST

1. ✓ Packet in pocket.
2. ✓ Stirrups secured.
3. ✓ Foot rest guards over seat foot rests.
4. ✓ Communications secured and functioning.
5. ✓ Face heat ON (LOW).
6. ✓ Oxygen hoses secured in QD.
7. ✓ Three harness snaps secured - harness adjusted and surplus stowed.
8. ✓ Kit adjusted and surplus stowed.
9. ✓ Two (2) bailout hoses secured.
10. ✓ Lap belt, shoulder harness, key, secured and adjusted. (velcro tape secured)
11. ✓ Oxygen hoses under right leg strap, chest strap under helmet hold-down.
12. ✓ Emergency oxygen lanyard secured and pin removed.
13. ✓ Green apple secured.
14. ✓ Red knob secured, guard removed.
15. ✓ Manual over-ride handle secured.
16. ✓ Two (2) Rocket-Jet releases secured.
17. ✓ Press-to-test both O2 Systems, (LOW pressure-#1 Sys 70/65 #2 Sys 75/70).
18. ✓ Check face heat.
19. ✓ Re-adjust lap belt.
20. ✓ Kit lanyard secured to D-Ring, under Lap Belt.
21. Parachute beacon; AUTOMATIC (), UNSNAPPED (), SNAPPED ().
22. Departing LOX quantity, #1 System 9.5 #2 System 9.5 TIME 1055.
23. Returning LOX quantity, #1 System 8.25 #2 System 9.0 TIME 1533.

25X1A SUBJECT 1056 AIRCRAFT NUMBER 127
TECHNICIAN DATE OF FLIGHT 8 March 68

EQUIPMENT PREFLIGHT FOR HIGH FLIGHT

PARACHUTE:

1. ✓ Ripcord pins seated (main and first stage).
2. ✓ Check power cable linkage.
3. ✓ Pack opening elastics secured.
4. ✓ First stage jettison mated and pins secured.
5. ✓ Two (2) rocket jet units secured.
6. ✓ Manual over ride handle secured.
7. ✓ Green apple secured.
8. ✓ Red knob secured, guard installed.
9. ✓ Bailout hoses adjusted for HIGH flight.
10. ✓ Bailout hose connectors operating.
11. ✓ Bailout hose safety clip lanyard checked.
12. ✓ Harness adjusted for HIGH flight.
13. ✓ Automatic openers - triggered and reset.
14. ✓ Aneroids (sea level to 7500').
15. ✓ Bailout cylinder pins secured.
16. ✓ Bailout cylinder pressure #1 1800 #2 1800.
17. ✓ Communication cord secured to chute.
18. ✓ Visual inspection completed.
19. ✓ Faceheat battery pack checked.

SURVIVAL KIT:

1. ✓ Yellow handle secured.
2. ✓ Trigger clearance.
3. ✓ Kit disconnects secured.
4. ✓ Lid secured.
5. ✓ Visual condition.

INSTALLATION:

1. ✓ Shoulder harness installed.
2. ✓ Vent hose secured at disconnect.
3. ✓ Kit secured to chute, loose.
4. ✓ Emergency oxygen lanyard secured to chute with pin installed.
5. ✓ Communication cord secured at disconnect.
6. ✓ Vent hose secured to chute.
7. ✓ Pin secured in QD and safetied.
8. ✓ Oxygen system low pressure #1 75/70 #2 80/70.
9. ✓ Pip pin in "D" ring.
10. ✓ Stirrup cables extended and operating freely.
11. ✓ Foot rest guards over seat foot rest.

SUBJECT# 51 AIRCRAFT # 27 PARACHUTE # 139 SEAT KIT # 51

25X1A

TYPE CUSHION SBM DATE 8 Mar 68 VENT HOSE # 71 TECHNICIA

FULL PRESSURE SUIT TEST LOG

SUBJECT # 1055
 SUIT # 1
 OUTER GARMENT W/FLOAT GEAR 1
 HELMET # 1
 GLOVES # 1
 BOOTS GT

FLIGHT DATE 8 MAR 68

DON _____

DOFF _____

TIME IN SUIT 1715 25X1ATECHNICIAN

<u>PRESS-TO-TEST</u>	<u>PRE-FLIGHT</u>	<u>SUBJECT TEST</u>	<u>POSTFLIGHT</u>
<u>SYSTEM #1</u>			
Max Pressure	<u>108</u>	<u>120</u>	<u>110</u>
Differential	<u>1.2</u>	<u>1.2</u>	<u>1.2</u>
Leak Rate	<u>1300</u>	<u>850</u>	<u>1200</u>
<u>SYSTEM #2</u>			
Max Pressure	<u>116</u>	<u>120</u>	<u>116</u>
Differential	<u>1.2</u>	<u>1.2</u>	<u>1.2</u>
Leak Rate	<u>1250</u>	<u>700</u>	<u>1100</u>
Unpress Leak Rate	<u>550</u>	<u>500</u>	<u>550</u>
Face Heat	<u>20 ohm</u>		
Commo and Cord	<u>OK</u>		
Pencils	<u>✓</u>		
Knife	<u>✓</u>		
Controller Number	<u>76</u>		
Packet	<u>✓</u>		
Grease Zippers	<u>✓</u>		
Check Location of CO ₂	<u>✓</u>		
Pressure Tap Screws		<u>OK</u>	

PRESSURE SUIT HOOK-UP CHECKLIST

1. ~~✓~~ Packet in pocket.
2. ~~✓~~ Stirrups secured.
3. ~~✓~~ Foot rest guards over seat foot rests.
4. ~~✓~~ Communications secured and functioning.
5. ~~✓~~ Face heat ON (LOW).
6. ~~✓~~ Oxygen hoses secured in QD.
7. ~~✓~~ Three harness snaps secured - harness adjusted and surplus stowed.
8. ~~✓~~ Kit adjusted and surplus stowed.
9. ~~✓~~ Two (2) bailout hoses secured.
10. ~~✓~~ Lap belt, shoulder harness, key, secured and adjusted. (VELCRO TAPE SECURED)
11. ~~✓~~ Oxygen hoses under right leg strap, chest strap under helmet hold-down.
12. ~~✓~~ Emergency oxygen lanyard secured and pin removed.
13. ~~✓~~ Green apple secured.
14. ~~✓~~ Red knob secured, guard removed.
15. ~~✓~~ Manual over-ride handle secured.
16. ~~✓~~ Two (2) Rocket-Jet releases secured.
17. Press-to-test both O2 Systems, (LOW pressure-#1 Sys 80/85 #2 Sys 95/100).
18. ~~✓~~ Check face heat.
19. ~~✓~~ Re-adjust lap belt.
20. Kit lanyard secured to D-Ring, under Lap Belt.
21. Parachute beacon; AUTOMATIC (), UNSNAPPED ~~(X)~~, SNAPPED ().
22. Departing LOX quantity, #1 System 8.75 #2 System 8.5 TIME 1155.
23. Returning LOX quantity, #1 System _____ #2 System _____ TIME _____.

25X1A

SUBJECT 1055 AIRCRAFT NUMBER 131
TECHNICIAN DATE OF FLIGHT 8 Mar 68

EQUIPMENT PREFLIGHT FOR HIGH FLIGHT

PARACHUTE:

1. ✓ Ripcord pins seated (main and first stage).
2. ✓ Check power cable linkage.
3. ✓ Pack opening elastics secured.
4. ✓ First stage jettison mated and pins secured.
5. ✓ Two (2) rocket jet units secured.
6. ✓ Manual over ride handle secured.
7. ✓ Green apple secured.
8. ✓ Red knob secured, guard installed.
9. ✓ Bailout hoses adjusted for HIGH flight.
10. ✓ Bailout hose connectors operating.
11. ✓ Bailout hose safety clip lanyard checked.
12. ✓ Harness adjusted for HIGH flight.
13. ✓ Automatic openers - triggered and reset.
14. ✓ Aneroids (sea level to 7500').
15. ✓ Bailout cylinder pins secured.
16. ✓ Bailout cylinder pressure #1 1800 #2 1800.
17. ✓ Communication cord secured to chute.
18. ✓ Visual inspection completed.
19. ✓ Faceheat battery pack checked.

SURVIVAL KIT:

1. ✓ Yellow handle secured.
2. ✓ Trigger clearance.
3. ✓ Kit disconnects secured.
4. ✓ Lid secured.
5. ✓ Visual condition.

INSTALLATION:

1. ✓ Shoulder harness installed.
2. ✓ Vent hose secured at disconnect.
3. ✓ Kit secured to chute, loose.
4. ✓ Emergency oxygen lanyard secured to chute with pin installed.
5. ✓ Communication cord secured at disconnect.
6. ✓ Vent hose secured to chute.
7. ✓ Pin secured in QD and safetied.
8. ✓ Oxygen system low pressure #1 80/70 #2 90/80.
9. ✓ Pip pin in "D" ring.
10. ✓ Stirrup cables extended and operating freely.
11. ✓ Foot rest guards over seat foot rest.

SUBJECT# 55 AIRCRAFT # 31 PARACHUTE # 125 SEAT KIT # 55

TYPE CUSHION SBM DATE 8 Mar 68 VENT HOSE # 76 TECHNICIAN

25X1A